

1AP7 Rec'd PCT/PTO 24 MAY 2006

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | ATTORNEY'S DOCKET NUMBER <div style="border: 1px solid black; padding: 2px;">HAMM0012UPCTUS</div> U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <div style="font-size: 1.5em; font-weight: bold;">10/580397</div> |
| INTERNATIONAL APPLICATION NO. PCT/EP2004/13296 | INTERNATIONAL FILING DATE November 23, 2004 | PRIORITY DATE CLAIMED November 25, 2003 |
| TITLE OF INVENTION Fabrication of Cooling and Heat Transfer Systems by Electroforming | | |
| APPLICANT(S) FOR DO/EO/US | | |

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. ☐ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
 - a. ☒ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ has been communicated by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11 to 20 below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A preliminary amendment.
14. ☐ An Application Data Sheet under 37 CFR 1.76.
15. ☐ A substitute specification.
16. ☐ A power of attorney and/or change of address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.
18. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

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|---|--------------|---|---------|--|---------|
| U.S. APPLICATION NO. (if known, use 37 CFR 1.51) 10/580397 | | INTERNATIONAL APPLICATION NO. PCT/EP2004/13296 | | ATTORNEY'S DOCKET NUMBER HAMM0012UPCTUS | |
| 20. Other items or information: 37 CFR 1.33 Request to use customer number 31518 for correspondence and attorneys of record Copy of Specification and Figures from International Application 37 CFR 1.98(A)(1) Reference Citation Listing References P-001, F-001-F-002, and O-001-O-003 Copies of References F-001-F-002 and O-001-O-003 Unexecuted Italian Language Declaration and Power of Attorney Advance Serial Number Card | | | | | |
| The following fees have been submitted | | | | CALCULATIONS PTO USE ONLY | |
| 21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a))..... \$300 | | | | \$ | 300.00 |
| 22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) | | | | \$ | 200.00 |
| If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 | | | | | |
| All other situations..... \$200 | | | | | |
| 23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) | | | | \$ | 400.00 |
| If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)..... \$0 | | | | | |
| Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority..... \$100 | | | | | |
| International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB..... \$400 | | | | | |
| All other situations..... \$500 | | | | | |
| TOTAL OF 21, 22 and 23 = | | | | | 900.00 |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | |
| Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole number) | RATE | | |
| - 100 = | /50 = | | x \$250 | \$ | |
| Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). | | | | \$ | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | \$ | |
| Total claims | 22 - 20 = | 2 | x \$ 50 | \$ | 100.00 |
| Independent claims | 3 - 3 = | 0 | x \$200 | \$ | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) | | | + \$360 | \$ | |
| TOTAL OF ABOVE CALCULATIONS = | | | | \$ | 100.00 |
| <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | | | | |
| SUBTOTAL = | | | | \$ | 1000.00 |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | | | \$ | |
| TOTAL NATIONAL FEE = | | | | \$ | 1000.00 |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property | | | | \$ | |
| TOTAL FEES ENCLOSED = | | | | \$ | 1000.00 |
| | | | | Amount to be refunded: | \$ |
| | | | | Amount to be charged | \$ |

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- a. ☒ A check in the amount of \$ 1000.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees.
A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2106. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

Neifeld IP Law, PC
4813-B Eisenhower Avenue
Alexandria, Virginia 22304

5/24/06

SIGNATURE

Richard A. Neifeld

NAME

35,299

REGISTRATION NUMBER

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37 CFR 1.7(c) FILING RECEIPT AND TRANSMITTAL LETTER WITH AUTHORIZATION TO CHARGE DEPOSIT ACCOUNT

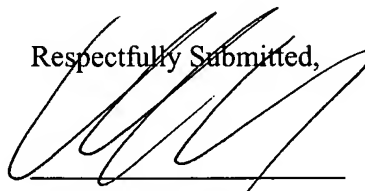
Neifeld Docket No.: HAMM0012UPCTUS Client Ref.:
US/PCT Application/Patent No.: Unknown US/PCT File/Issue Date: Herewith
Priority Data: National Stage of PCT/EP2004/13296 filed 11/23/04 USPTO Confirmation No.:
Inventor: BANHAM et al.
Title: Fabrication of Cooling and Heat Transfer Systems by Electroforming

THE FOLLOWING HAS BEEN RECEIVED IN THE U.S. PATENT OFFICE ON THE DATE STAMPED HEREON:

37 CFR 1.7(c) Filing Receipt and Transmittal Letter with Authorization to Charge Deposit Account (in duplicate)
Check for \$1,000.00
Transmittal Letter to the United States Designated/Elected Office Concerning a Submission Under 35 USC 371 (3 pages, in duplicate)
37 CFR 1.115 Preliminary Amendment (10 Pages)
37 CFR 1.33 Request to Use Customer Number 31518 for Correspondence and Attorneys of Record
37 CFR 1.97 Information Disclosure Statement and Authorization to Charge Deposit Account Listing References P-001, F-001, F-002, and P-001-P-003 (in duplicate)
Copies of References F-001, F-002, and P-001-P-003
Substitute Specification (22 pages)
Specification, Figures and Claims of PCT/EP2004/13296 filed November 23, 2004, published as WO 2005/054547 (17 pages)
Unexecuted Italian Language Declaration and Power of Attorney (3 pages)
Advance Serial Number Card

The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 50-2106. A duplicate copy of this sheet is enclosed.

5/24/06
DATE

Respectfully Submitted,

Richard A. Neifeld
Registration No. 35,299
Attorney of Record

| | PcLaw Matter | Lawyer | Amount | Explanation | Date Entered | Initials |
|----------------|--------------|-------------|------------|--|--------------|----------|
| Fees: | HAMM0012 | BTM | \$600.00 | HAMM0012UPCTUS firm charge for docketing and filing a US national stage application. | 5/23/2006 | BTM |
| Fees: | | | | | | |
| Disbursements: | PcLaw Matter | G/L Account | Amount | Explanation | Date Entered | Initials |
| | HAMM0012 | 5010 | \$1,000.00 | HAMM0012UPCTUS gov. fee for docketing and filing a US national stage application. | 5/23/2006 | BTM |

Printed: September 30, 2005 (1:31pm)

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NEIFELD REF.: HAMM0012UPCTUS

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

IN RE APPLICATION OF: Banham et al.

USPTO CONFIRMATION CODE: Unknown

US OR 371 APPLICATION NO: Filed Herewith

US OR 371(C)(4) FILING DATE: Filed Herewith

GROUP ART UNIT: Unknown

TITLE: Fabrication of Cooling and Heat Transfer Systems by Electroforming

37 CFR 1.33 REQUEST TO USE CUSTOMER NUMBER 31518

FOR CORRESPONDENCE AND ATTORNEYS OF RECORD

Please use the address associated with the customer number **31518** for the correspondence address.

Please recognize the attorneys associated with the customer number **31518** as attorneys of record.

NEIFELD IP LAW, PC CUSTOMER NUMBER: 31518

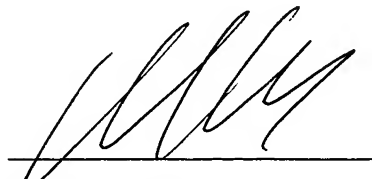
NEIFELD IP LAW, PC CURRENT POSTAL ADDRESS:

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Date: 5/24/06



Richard Neifeld

Registration No. 35, 299

Attorney of Record